

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A junction lens device made by joining a ~~high refractive~~ first lens having a first refractive index and a ~~low refractive~~ second lens having a second refractive index using an adhesive having a third refractive index that is closer to the second refractive index than the first refractive index, wherein a coating layer for index matching is formed on a surface of ~~at least one of the high refractive~~ the first lens and wherein the low refractive lens contacting the adhesive is disposed between the coating layer and the second lens to reduce a reflection ratio on a junction surface.

2. (currently amended) The junction lens device as claimed in claim 1, wherein the coating layer ~~is formed~~ has a refractive index selected such that a reflection ratio on the junction surface with respect to a visible light ray is not more than about 0.2%.

3. (currently amended) The junction lens device as claimed in claim 1, wherein a difference in refractive index between the ~~high refractive lens~~ first refractive index and the ~~low refractive lens~~ second refractive index is not less than about 0.15.

4. (currently amended) A junction lens device made by joining a ~~high refractive~~ first lens having a first refractive index and a ~~low refractive~~ second lens having a second refractive index using an adhesive having a third refractive index that is closer to the second refractive index than the first refractive index, wherein a coating layer is formed on a surface of ~~at least one of the high refractive~~ the first lens and wherein the low refractive lens contacting the adhesive is disposed between the coating layer and the second lens so that a reflection ratio on a junction surface with respect to a visible light ray is not more than about 0.2%.

5. (currently amended) The junction lens device as claimed in claim 4, wherein a difference in between the first refractive index and the second refractive index ~~between the high refractive lens and the low refractive lens~~ is not less than about 0.15.

6. (currently amended) A zoom lens optical system including at least one junction lens device made by joining a ~~high refractive~~ first lens having a first refractive index and a ~~low refractive~~ second lens having a second refractive index using an adhesive having a third refractive index that is closer to the second refractive index than the first refractive index, wherein in the junction lens device a coating layer for index matching is formed on a surface of ~~at least one of the high refractive~~ the first lens and wherein the low refractive lens contacting the adhesive is disposed between the coating layer and the second lens to reduce a reflection ratio on a junction surface.

7. (currently amended) The zoom lens optical system as claimed in claim 6, wherein the coating layer ~~is formed~~ has a refractive index selected such that a reflection ratio on the junction surface with respect to a visible light ray is not more than about 0.2%.

8. (currently amended) The zoom lens optical system as claimed in claim 6, wherein a difference in refractive index between the ~~high refractive lens~~ first refractive index and the ~~low refractive lens~~ second refractive index is not less than about 0.15.

9. (original) The zoom lens optical system as claimed in claim 6, further comprising a front lens for receiving information from an object, a zoom lens performing a zooming function, and a focus lens for forming an image, wherein the junction lens device is used for at least one of the front lens, the zoom lens, and the focus lens.

10. (currently amended) A zoom lens optical system including at least one junction lens device made by joining a ~~high refractive~~ first lens having a first refractive index and a ~~low refractive~~ second lens having a second refractive index using an adhesive having a third refractive index that is closer to the second refractive index than the first refractive index, wherein in the junction lens device a coating layer is formed on a surface of ~~at least~~

~~one of the high refractive~~ the first lens and wherein the low refractive lens contacting the adhesive is disposed between the coating layer and the second lens so that a reflection ratio on a junction surface with respect to a visible light ray is not more than about 0.2%.

11. (currently amended) The zoom lens optical system as claimed in claim 10, wherein a difference in refractive index between the ~~high refractive lens~~ first refractive index and the ~~low refractive lens~~ second refractive index is not less than about 0.15.

12 (original) The zoom lens optical system as claimed in claim 10, further comprising a front lens for receiving information from an object, a zoom lens performing a zooming function, and a focus lens for forming an image, wherein the junction lens device is used for at least one of the front lens, the zoom lens, and the focus lens.

13. (currently amended) A camera including a zoom lens optical system, wherein the zoom lens optical system comprises at least one junction lens device made by joining a ~~high refractive~~ first lens having a first refractive index and a ~~low refractive~~ second lens having a second refractive index using an adhesive having a third refractive index that is closer to the second refractive index than the first refractive index and, in the junction lens device, a coating layer for index matching is formed on a surface of ~~at least one of the high refractive~~ the first lens and wherein the low refractive lens contacting the adhesive is disposed between the coating layer and the second lens to reduce a reflection ratio on a junction surface.

14. (currently amended) The camera as claimed in claim 13, wherein the coating layer ~~is formed~~ has a refractive index selected such that a reflection ratio on the junction surface with respect to a visible light ray is not more than about 0.2%.

15. (currently amended) The camera as claimed in claim 13, wherein a difference in refractive index between the ~~high refractive lens~~ first refractive index and the ~~low refractive lens~~ second refractive index is not less than about 0.15.

16. (original) The camera as claimed in claim 13, wherein the zoom lens optical system further comprises a front lens for receiving information from an object, a zoom lens for forming an image, and a focus lens performing a focusing function, and the junction lens device is used for at least one of the front lens, the zoom lens, and the focus lens.

17. (currently amended) A camera including a zoom lens optical system, wherein the zoom lens optical system comprises at least one junction lens device made by joining a ~~high-refractive~~ first lens having a first refractive index and a ~~low-refractive~~ second lens having a second refractive index using an adhesive having a third refractive index that is closer to the second refractive index than the first refractive index and, in the junction lens device, a coating layer is formed on a surface of ~~at least one of the high-refractive~~ the first lens and wherein the low-refractive lens contacting the adhesive is disposed between the coating layer and the second lens so that a reflection ratio on a junction surface with respect to a visible light ray is not more than about 0.2%.

18. (currently amended) The camera as claimed in claim 17, wherein a difference in refractive index between the ~~high-refractive lens~~ first refractive index and the ~~low-refractive lens~~ second refractive index is not less than about 0.15.

19. (original) The camera as claimed in claim 17, wherein the zoom lens optical system further comprises a front lens for receiving information from an object, a zoom lens performing a zooming function, and a focus lens for forming an image, and the junction lens device is used for at least one of the front lens, the zoom lens, and the focus lens.

20. (currently amended) A method of manufacturing a junction lens device comprising the steps of:

forming an ~~index-matching~~ coating layer on a first lens having a first refractive index;
and

joining said first lens to a second lens having a second refractive index with an adhesive disposed between said coating layer and said second lens;

wherein said adhesive has a refractive index closer to a the second refractive index of ~~said second lens~~ than said first lens refractive index, and said ~~index matching coating~~ layer has ~~an index of refraction~~ refractive index between the ~~index of refraction of the first lens~~ refractive index and the ~~index of refraction~~ refractive index of the adhesive.

21. (currently amended) The method of claim 20, wherein said adhesive has a refractive index substantially similar to the second refractive index ~~of said second lens~~.

22. (canceled)

23. (currently amended) The method of claim ~~[[22]]~~20, wherein the refractive index of the ~~index matching coating~~ layer is substantially equal to the square root of the product of the ~~index of refraction~~ refractive index of the adhesive and the ~~index of refraction of the first lens~~ first refractive index.

24. (previously presented) A junction lens device manufactured using the method of claim 20.